



# SAFETY DATA SHEET

Issue Date 01-May-2013

Revision Date 02-May-2013

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name Zinc Sulfate Monohydrate

### Other Means of Identification

SDS # OBC-006

UN/ID No UN3077

### Recommended Use of the Chemical and Restrictions on Use

Recommended Use For industrial use.

### Details of the Supplier of the Safety Data Sheet

#### Manufacturer Address

Old Bridge Chemicals, Inc.  
554 Waterworks Rd.  
Old Bridge, NJ 08857

### Emergency Telephone Number

Company Phone Number (732) 727-2225 (normal business hours)  
(800) 275-3924 (24 hour number)

Emergency Telephone Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral

Category 4

### Signal Word

Warning

### Hazard Statements

Harmful if swallowed



Appearance White granules or powder

Physical State Solid

Odor Odorless

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Zinc sulfate, monohydrate	7446-19-7	100

**4. FIRST AID MEASURES****First Aid Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Keep patient warm and at rest.
<b>Ingestion</b>	Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, both Acute and Delayed**

<b>Symptoms</b>	For Acute Exposure: May cause skin and eye irritation. May cause corneal burn. May cause gastrointestinal disturbance. May cause nose and throat irritation. For Chronic Exposure: May cause dermatitis or irritation in some individuals upon prolonged contact. May cause conjunctivitis. May cause inhalation reflex bronchial constriction.
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**Indication of any Immediate Medical Attention and Special Treatment Needed**

<b>Note to Physicians</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use CO2, dry chemical, or foam. Water may be used ONLY to keep surrounding containers cool.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be ineffective.

**Specific Hazards Arising from the Chemical**

Product is not flammable.

**Hazardous Combustion Products** May release toxic oxides of Zinc and Sulfur in a fire.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Contain spills to prevent migration and entry into any waterway.

**Methods for Cleaning Up** Can be carefully reacted with Sodium Carbonate to form an insoluble Zinc Carbonate solid that can be scooped up and sent to an approved disposal facility.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions** Heated storage is necessary to prevent crystallization. Keep the container tightly closed and dry.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** No exposure limits noted for ingredient(s)

### Appropriate Engineering Controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** Wear splash proof or dust proof safety goggles wherever there is a potential for eye contact.

**Skin and Body Protection** Wear suitable protective clothing. Use chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact. Consult the glove manufacturer for the most appropriate glove material. Wash contaminated clothing, including shoes, before reuse. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Solid	<b>Odor</b>	Odorless
<b>Appearance</b>	White granules or powder	<b>Odor Threshold</b>	Not determined
<b>Color</b>	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Applicable	
Melting Point/Freezing Point	21 °C / 70 °F	Crystallization Point
Boiling Point/Boiling Range	Not Applicable	
Flash Point	Not Applicable	
Evaporation Rate	Not Applicable	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not Applicable	
Specific Gravity	3.28	
Water Solubility	30 - 37%	@ 21 °C/ 70 °F
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

May release toxic oxides of Zinc and Sulfur in a fire.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### **Product Information**

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Avoid inhalation of dust.
<b>Ingestion</b>	Harmful if swallowed.

**Component Information** Not available

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity**

Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information** Not available

**Persistence and Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations. With prior approval the material can be returned to the manufacturer.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Zinc sulfate, monohydrate 7446-19-7	Toxic

## 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. This material is a hazardous substance and regulated for transportation to, from, or within the U.S. in packages of 1000 lbs or more.

**DOT**

UN/ID No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate)
Hazard Class	9
Packing Group	III
Reportable Quantity (RQ)	1000 lbs
Emergency Response Guide Number	ERG 171

**IATA**

UN/ID No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate)
Hazard Class	9
Packing Group	III

**IMDG**

UN/ID No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate)
Hazard Class	9
Packing Group	III

## 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Listed

**Legend:**

*TSCA* - United States Toxic Substances Control Act Section 8(b) Inventory

*DSL/NDL* - Canadian Domestic Substances List/Non-Domestic Substances List

*EINECS/ELINCS* - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

*ENCS* - Japan Existing and New Chemical Substances

*IECSC* - China Inventory of Existing Chemical Substances

*KECL* - Korean Existing and Evaluated Chemical Substances

*PICCS* - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations****CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Zinc sulfate, monohydrate 7446-19-7	1000 lbs	1000 lbs	1000 lbs

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	Yes

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Zinc sulfate, monohydrate - 7446-19-7	7446-19-7	100	1.0

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc sulfate, monohydrate 7446-19-7 ( 100 )		X		

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Zinc sulfate, monohydrate - 7446-19-7	X

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc sulfate, monohydrate 7446-19-7	X		X

**16. OTHER INFORMATION****NFPA****Health Hazards**

2

**Flammability**

0

**Instability**

0

**Special Hazards** Not  
determined **Personal**

**HMIS****Health Hazards**

2

**Flammability**

0

**Physical Hazards**

0

**Protection** Not  
determined

Issue Date

01-May-2013

Revision Date

02-May-2013

Revision Note

New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet